

Bringing the Canadian Archive of Women in STEM to Wikidata

How Wikidata can be used in an archival context

Workshop Presented at the 2020 Association of Canadian Archivists (ACA) Conference



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Presenters



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Before the workshop

- Your wiki account:
<https://www.wikidata.org/w/index.php?title=Special:CreateAccount>
- Join our program:
https://outreachdashboard.wmflabs.org/courses/ACA/Bringing_the_Canadian_Archive_of_Women_in_STEM_to_Wikidata/home

Schedule

12:00 - 12:05 (EDT)	Introduction
12:05 - 12:15 (EDT)	Overview of the workshop and introduction (participants)
12:15 - 12:30 (EDT)	Overview of Wikidata
12:30 - 12:40 (EDT)	Why Wikidata for Archives
12:40 - 12:50 (EDT)	Overview of Canadian Archive of Women in STEM
12:50 - 13:20 (EDT)	How to Contribute <ul style="list-style-type: none">• Exercise 1: Authority record (women)• Exercise 2: Archival fonds entry
13:20 - 13:35 (EDT)	Wikidata Tools
13:35 - 13:55 (EDT)	Hands-on exercises
13:55 - 14:00 (EDT)	Wrap-up

About the Workshop

- Introduction to Wikidata for archivists
- How to create Wikidata items for authority records and archival collections
- Use-case from the Canadian Archive of Women in STEM
- Tools for creating and using Wikidata
- Hands-on exercises

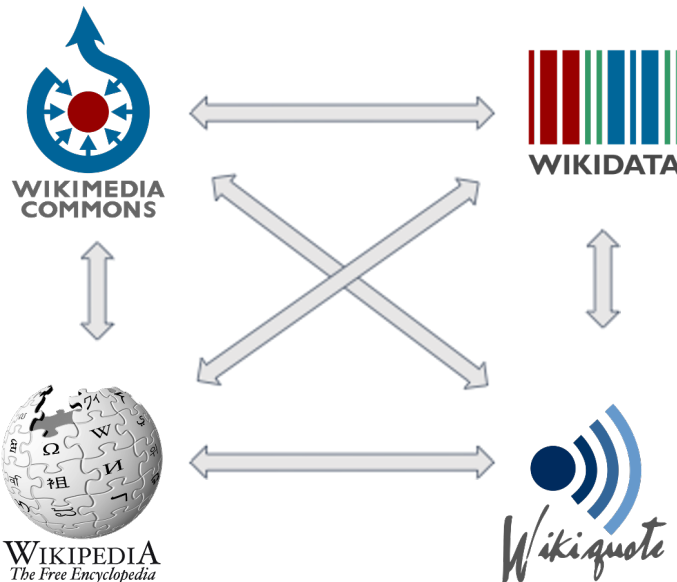
Overview of Wikidata

What is Wikidata?

- Multilingual knowledge base
- Central repository for all Wikimedia projects
- Launched in 2012
- Stores structured linked data
 - Contains over 87 million items
- Read and edited by both humans and machines
- CC0 license
- Data is created, edited and maintained by users
- Uses defined properties



Wikimedia Projects Interlinking



<p>occupation</p>	<p>  singer ... </p> <p>▶ 1 reference</p> <hr/> <p>  pianist ... </p> <p>▼ 0 references</p>
<p>field of work</p>	<p>  musical composition </p> <p>▼ 0 references</p>

Sarah McLachlan

From Wikipedia, the free encyclopedia

Sarah Ann McLachlan **OC** **OBC** (born January 28, 1968) is a Canadian singer-songwriter known for her emotional **ballads** and **mezzo-soprano** vocal range. As of 2015 she had sold over 40 million albums worldwide.^{[2][3]} McLachlan's best-selling album to date is *Surfacing*, for which she won two **Grammy Awards** (out of four nominations) and four **Juno Awards**. In addition to her personal artistic efforts, she founded the **Lilith Fair** tour, which showcased female musicians on an unprecedented scale. The Lilith Fair concert tours took place from 1997 to 1999, and resumed in the summer of 2010.

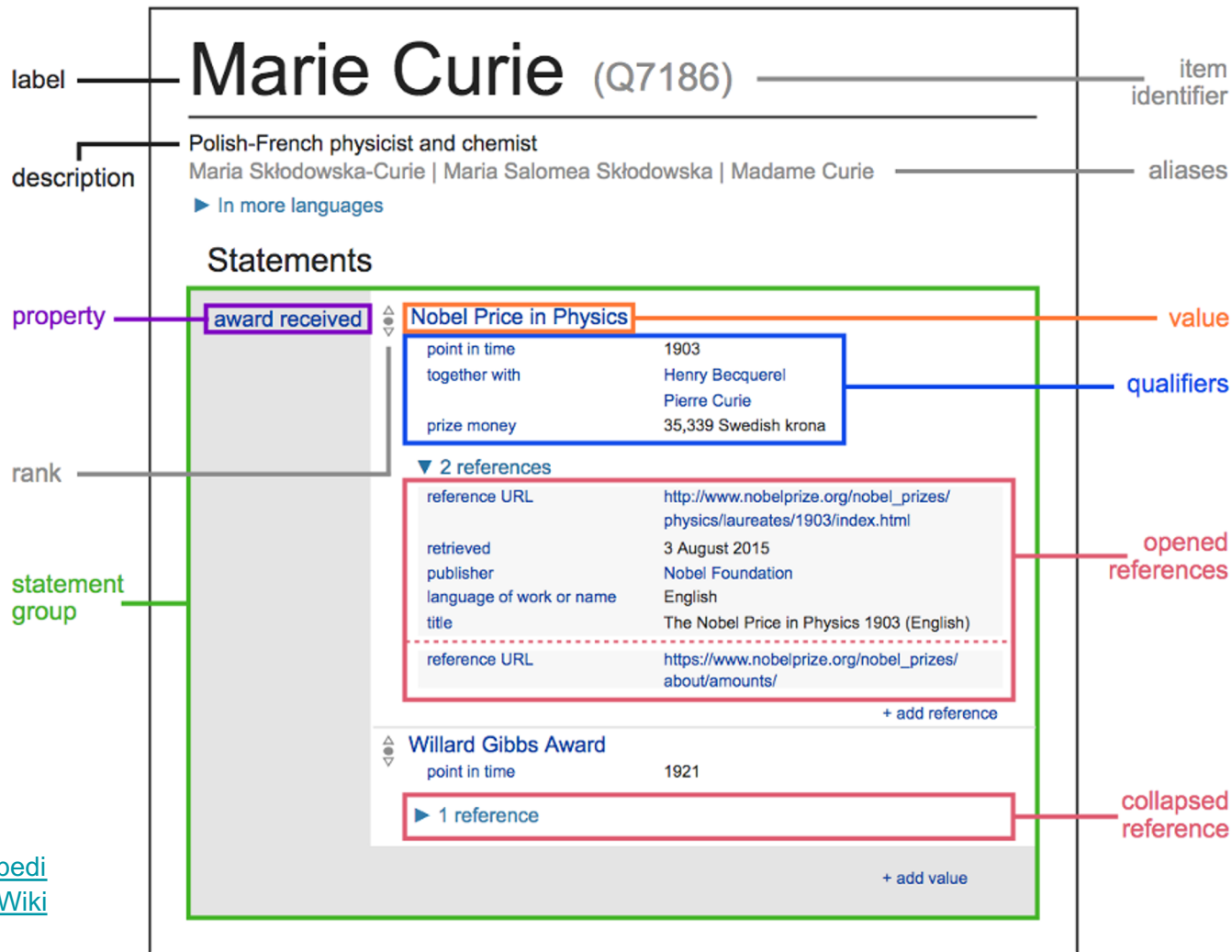
Song lyrics [\[edit \]](#)

All songs written by Sarah McLachlan, unless otherwise noted.

***Touch* (1988)** [[edit](#)]

- Crouching down inside a deep ravine,
Those angry cries pass quickly by, he can't be seen.

Wikidata Data Model



File source:

https://upload.wikimedia.org/wikipedia/commons/0/00/Datamodel_in_Wiki_data_Marie_Curie_en.svg

Why contribute to Wikidata?

- Because it aligns with the libraries' mission to serve their communities
- By contributing to the knowledge base we could:
 - Improve the coverage of underrepresented communities
 - Increase the visibility of archival collections
 - Help establish connections among collections
 - Facilitate the improvement of catalog records
 - Impact the search results of Google knowledge graphs

Wikidata in VIAF (Virtual International Authority File)


Search


Select Field:
Corporate Names


Select Index:
All VIAF


Search Terms:
National Library of Canada


Search


National Library of Canada. 

Bibliothèque nationale du Canada 

National Library of Canada Ottawa 


Bibliothèque nationale Canada 


National Library of Canada (Ottawa) Ottawa 


Canadá., National Library 


VIAF ID: 169025450 (Corporate)
Permalink: <http://viaf.org/viaf/169025450>


Preferred Forms


 210 || [ta Bibliothèque nationale](#) [tc Canada](#)


 110 2 _ [ta Bibliothèque nationale du Canada](#)


 110 2 _ [ta Bibliothèque nationale du Canada](#)


 151 _ _ [ta Bibliothèque nationale du Canada](#)


 210 0 1 [ta Canadá](#) [tb National Library](#)


 110 2 _ [ta National Library of Canada](#)


 110 2 _ [ta National Library of Canada](#)


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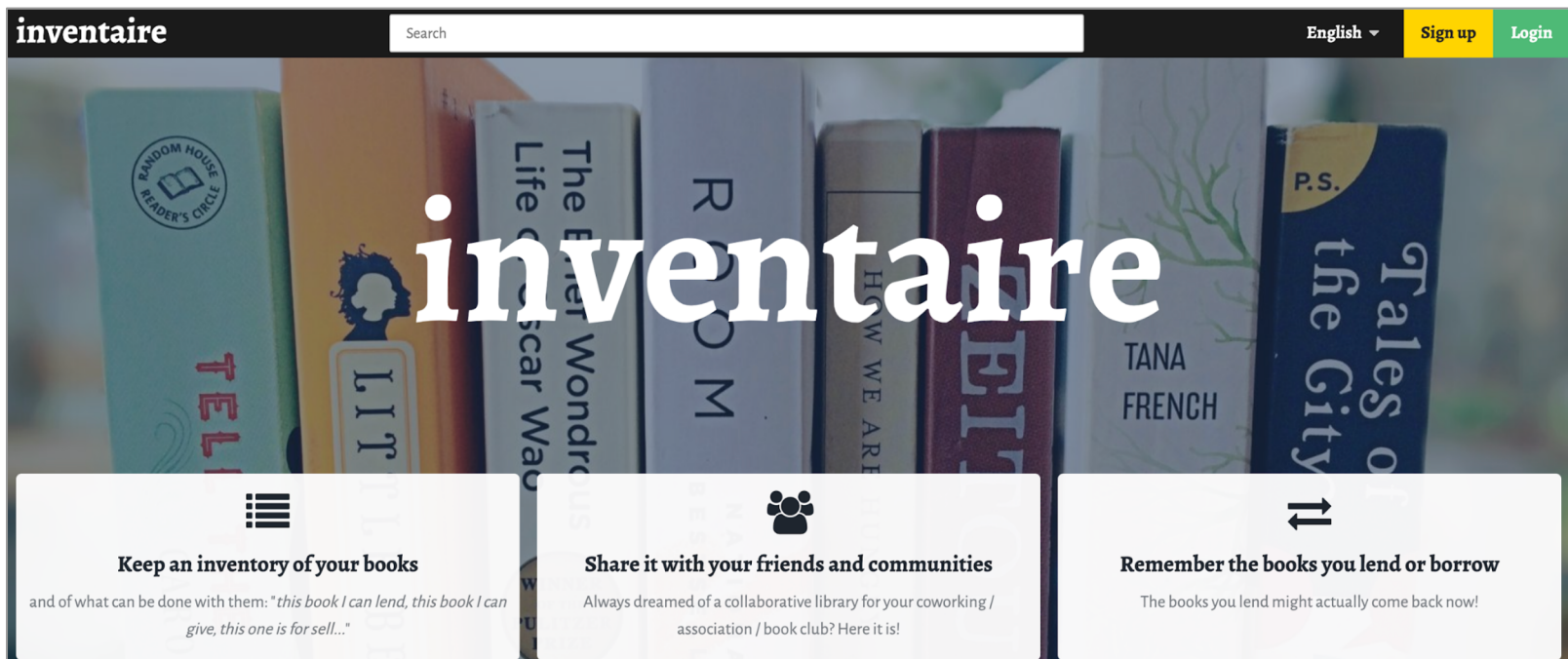
 110 2 _ [ta National Library of Canada](#)



Wikidata
WKP:Q24229358

Using Wikidata's Data

Inventaire (<https://inventaire.io/welcome>)




inventaire

Search


English ▾ Sign up Login

inventaire




Keep an inventory of your books

and of what can be done with them: *"this book I can lend, this book I can give, this one is for sell..."*



Share it with your friends and communities

Always dreamed of a collaborative library for your coworking / association / book club? Here it is!



Remember the books you lend or borrow

The books you lend might actually come back now!

Why Wikidata for Archives?

The use of Wikidata in Wikipedia

Helen Levine: [Wikidata](#) and [Wikipedia \(FR\)](#)

Her information in Wikidata is connected to the Infobox in Wikipedia via `{{Infobox Biographie2}}`

Helen Levine (Q90840960)

Canadian feminist and activist edit
Helen Zivian

↳ Recoin: Most relevant properties which are absent

▼ In more languages

Language	Label	Description	Also known as
English	Helen Levine	Canadian feminist and activist	Helen Zivian
French	Helen Levine	No description defined	
Korean	No label defined	No description defined	

Statements

instance of	human edit
▼ 0 references	
+ add reference	
+ add value	

sex or gender edit

female
▼ 0 references



Helen Levine

Une illustration sous licence libre serait la bienvenue

Biographie

Naissance 15 octobre 1923 edit
Ottawa edit

Décès 24 octobre 2018 edit (à 95 ans)

Nationalité Canadienne edit

Activité Féministe edit

Autres informations

Distinction Prix du Gouverneur général edit

Archives conservées par Bibliothèque de l'Université d'Ottawa (en) edit

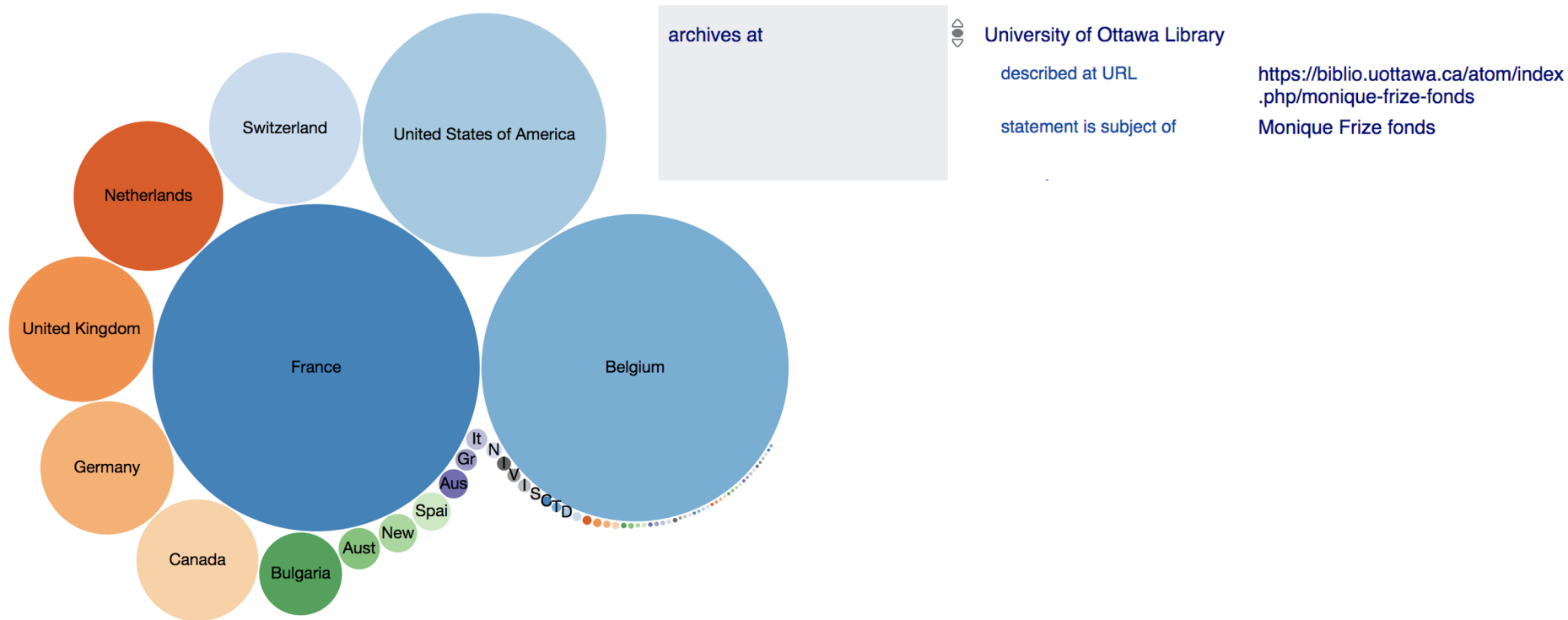
modifier - modifier le code - modifier Wikidata i

Wikidata:WikiProject Archival Description

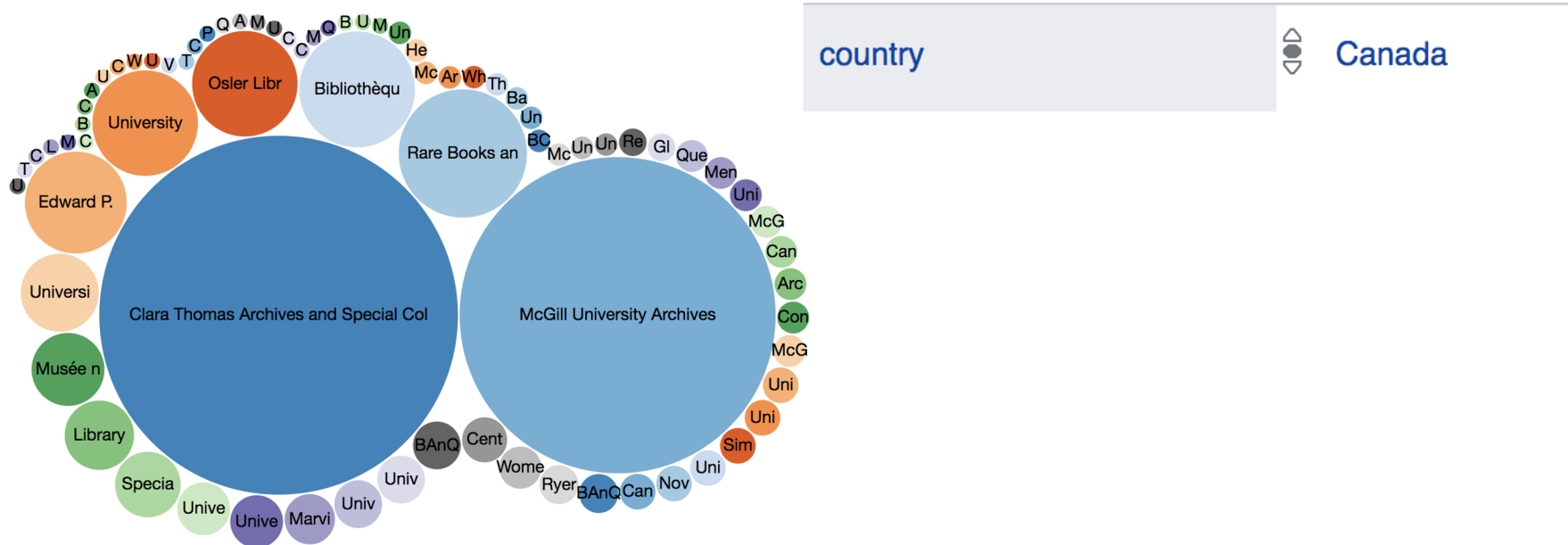
“The aim of the present project is to create the world’s most comprehensive high quality database of archival fonds and heritage collections, to represent archival structures within Wikidata where this is deemed useful and to ensure the interlinking between archival finding aids and Wikidata.”

https://www.wikidata.org/wiki/Wikidata:WikiProject_Archival_Description

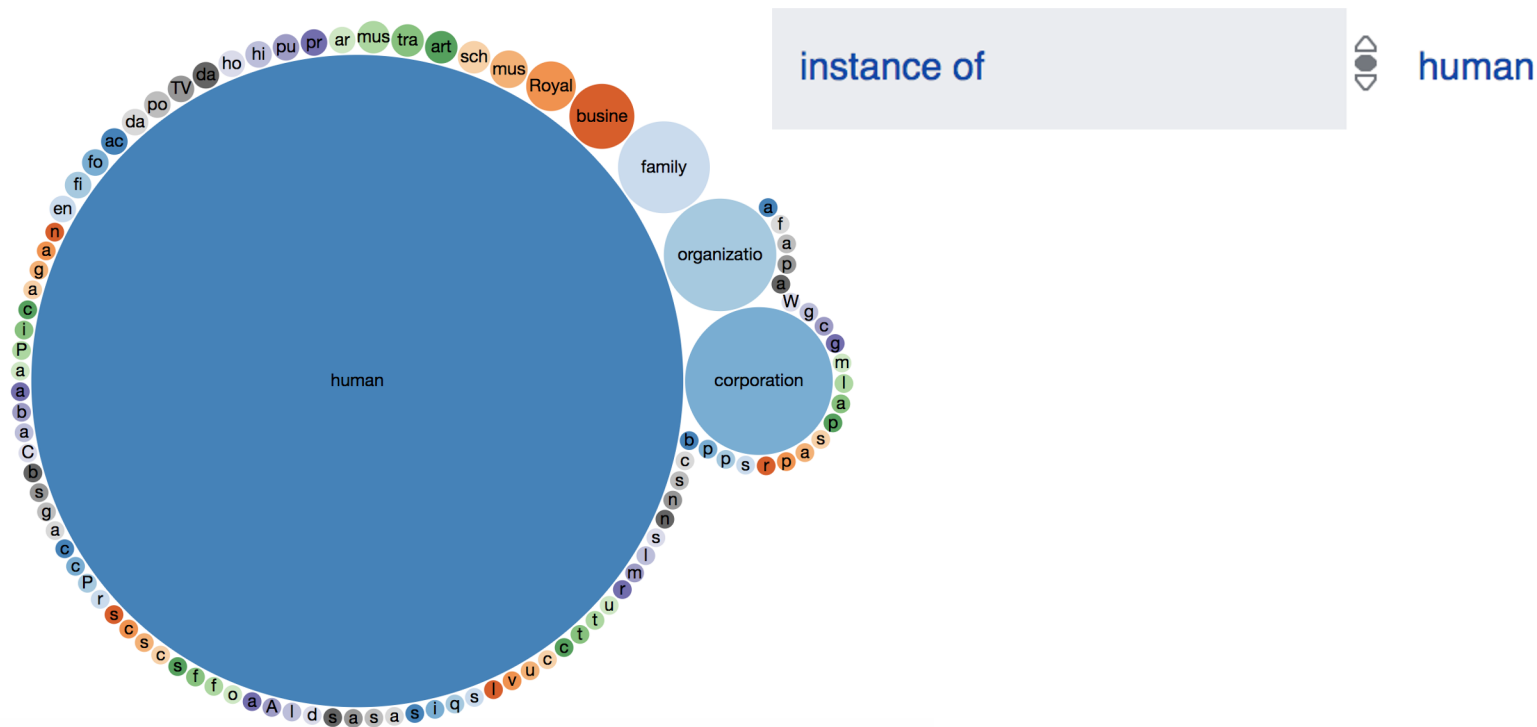
SPARQL: Archives at (P485) by Country



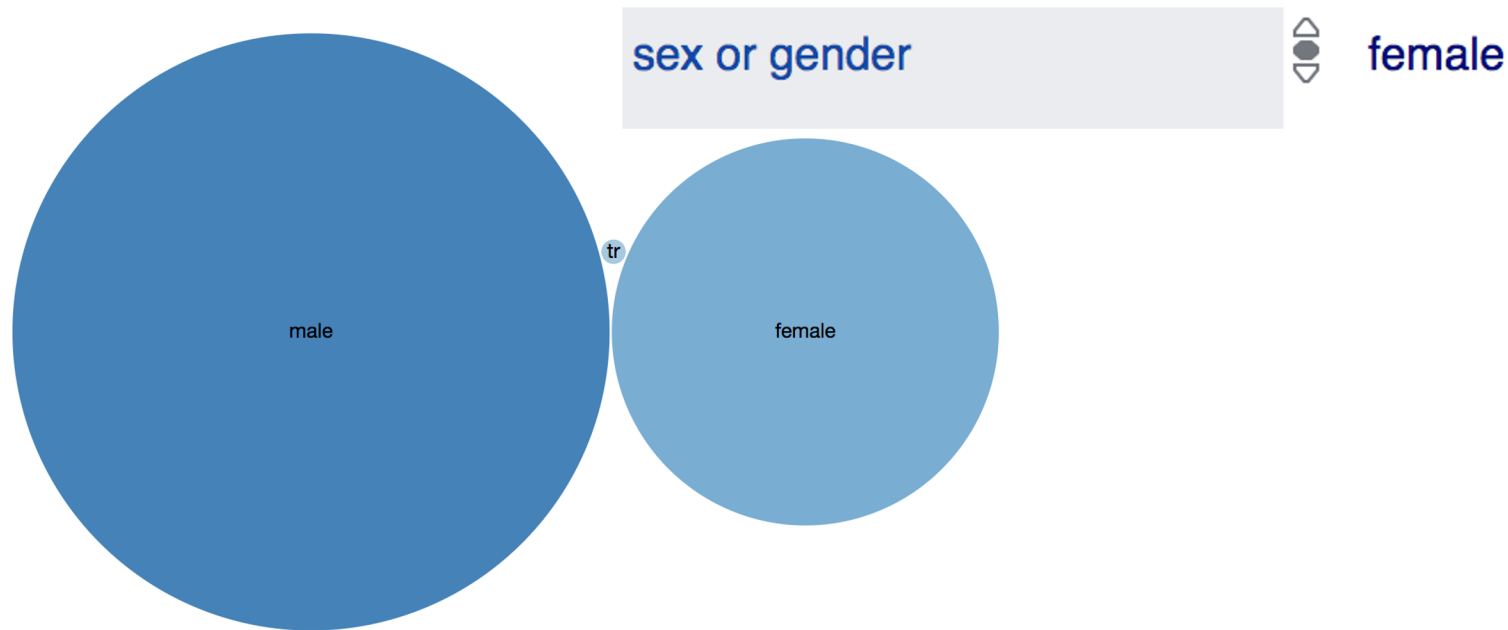
SPARQL: Archives at (P485) in Canada



SPARQL: Instance of (P31) among them



SPARQL: Sex or gender (P21) among them



Integration with AtoM

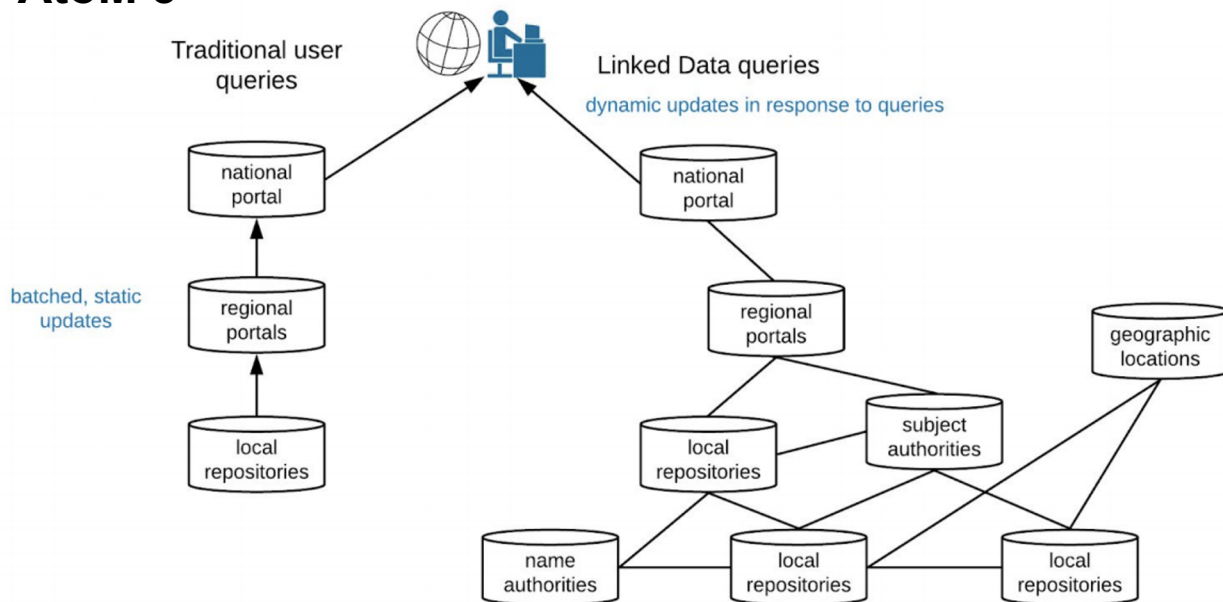
McGill University Archives: [H. Locke Robertson Fonds](#)

Notes area

Language and script note	Mainly English, with some French.
Restrictions on access	The diary beginning January 1971 (post-McGill years) will be closed for 20 years until December 31, 2005.
Finding aids	http://archives.mcgill.ca/findingaid/mg2001.pdf
Generated finding aid	h-rocke-robertson-fonds.pdf
Alternative identifier(s)	Accession no.: 0000-0165; 0000-0181; 0000-0243; 0000-0363; 0000-0518; 0000-0704; 2006-0026; 2007-0132; 2010-0029 Wikidata Q identifier: https://www.wikidata.org/wiki/Q62035670

Beyond the Archival Portal

AtoM 3



EHRI Portal

- European Holocaust Research Infrastructure (EHRI) leveraged Wikidata to expand and enhance its authority records for Holocaust-era camps and ghettos.

Reference: [Wikidata & Archivists](#) at AAO Institutional Issues Forum by Katrina Cohen-Palacios and Coeey, N. (2019). Leveraging Wikidata to Enhance Authority Records in the EHRI Portal. *Journal of Library Metadata*. <https://doi.org/10.1080/19386389.2019.1589700>

The Canadian Archive of Women in STEM



Project overview

- Launched in June 2018
- Joint project between uOttawa Archives and Special Collections, Library and Archives Canada and the Canadian Institute of Women Engineers and Scientists (CIWES)
- Objective is to bring more attention to and knowledge of the contributions of women in STEM in Canada
- A [searchable index](#) to help researchers discover all the archival fonds and collections related to women in STEM held in Canadian institutions
- Encourage women in STEM to think about donating their records to archives
- How to make the initiative and the women even more known and discoverable?

Wikidata for the Canadian Archive of Women in STEM

- Better data exchange with other applications.
- Improvement of findability and searchability of the archival fonds about Canadian women in STEM through linked data, rather than having an isolated stand-alone portal.
- Better workflow to add new archival fonds and more sustainable to keep.
- Possibility to develop an application based on Wikidata, Wikimedia Commons, IIIF like [Science Stories](#).
- According to [Denelezh](#) on June 3, 2020, only 21% of Canadian represented in Wikidata are female.

SPARQL - Canadian Archive of Women in STEM

Experimental website: <https://yooylee.github.io/experiment-wikidata-canadian-archive-women-in-stem/>

Q1 - Canadian GLAMs institutions containing Archive of Women in STEM

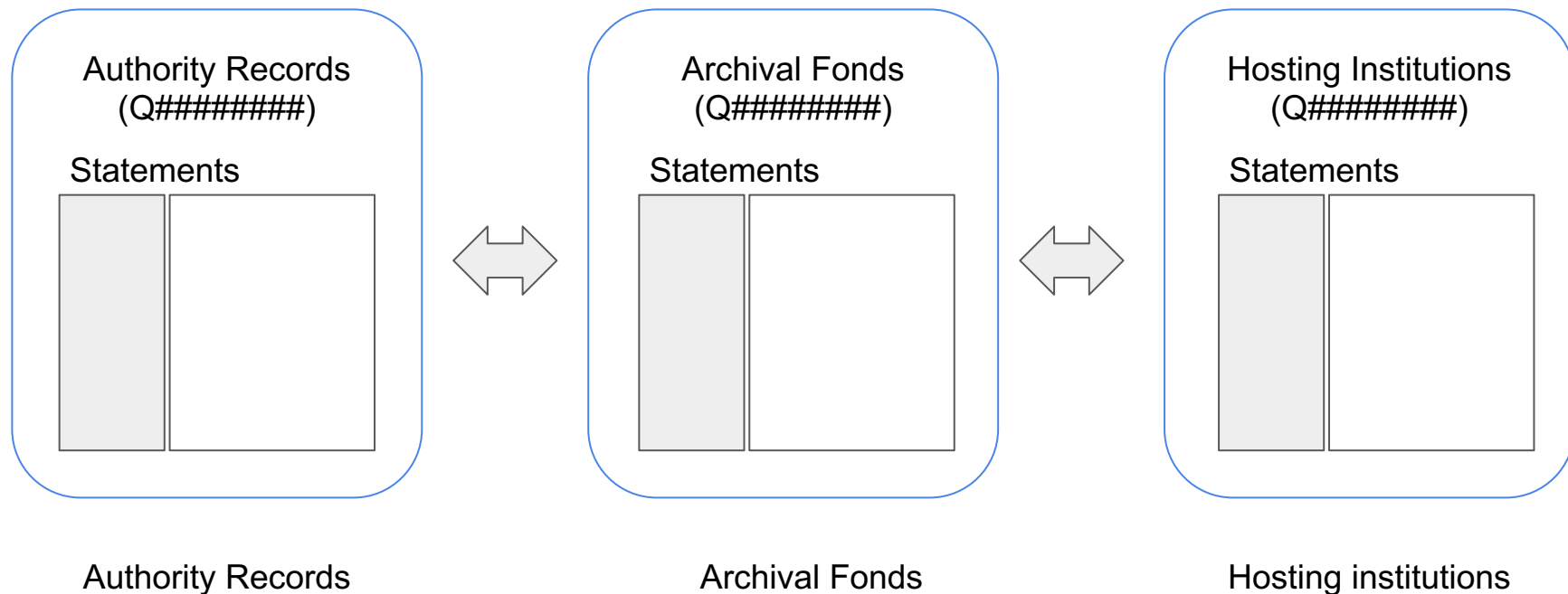
Q2 - What is their occupation?

Q3 - Timeline of the archival fonds

Q4 - Timeline based on their birthday

How to Contribute?

Three ways to contribute to Wikidata from Archives



Authority Record

Archival description area

Name of creator

Frize, Monique
(1942-)

Biographical history:

Monique Frize, née Aubry (1942 -), is a Canadian researcher and engineer in the biomedical field. She was the first women to study engineering at the University of Ottawa and graduated with a Bachelor of Applied Science (Electrical Engineering) in 1966. She received an Athlone Fellowship and completed a Master's in Philosophy in Electrical Engineering (Engineering in Medicine) at the Imperial College of Science and Technology in London (United Kingdom), a Master's of Business Administration at the University of Moncton (New Brunswick), and a doctorate from Erasmus Universiteit in Rotterdam (The Netherlands).

Monique Frize worked as a clinical engineer for 18 years. She started her career at the Hôpital Notre-Dame in Montreal. In 1979, she was appointed Director of the Regional Clinical Engineering Service in Moncton (New Brunswick) and became the first Chair of the Division of Clinical Engineering for the International Federation of Medical and Biological Engineering (IFMBE) in 1985. In 1989, she was appointed the first holder of the national Northern Telecom/NSERC Chair for women in engineering at the University of New Brunswick, and professor in the Electrical department. In 1990, she was named chair of the Canadian Committee for Women in Engineering (CCWE). In 1997, she joined Carleton University, as a Professor in the Department of Systems and Computer Engineering, and the University of Ottawa, as a Professor in the School of Information Technology and Engineering. She also held the Ontario NSERC/Nortel Chair for women in science and engineering. She is a founding member of International Network of Women Engineers and Scientists (INWES) and was its president between 2002 and 2008. In 2007, she founded INWES Education and Research Institute (ERI) and has been its president since then.

instance of (P31)

human (Q5)

sex or gender (P21)

female (Q6581072)

country of citizenship
(P27)

Canada (Q16)

given name (P735)

Monique (Q1524975)

family name (P734)

Frize (Q61729478)

date of birth (P570)

...

place of birth (P19)

Montreal (Q340)

occupation (P106)

biomedical engineer (Q19902880)

Authority Record

Archival description area

Name of creator

Frize, Monique
(1942-)

Biographical history:

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date of death (P570)

...

place of death (P20)

...

employer (P108)

University of Ottawa (Q627969)

award received (P166)

Officer of the Order of Canada
(Q15278116)

educated at (P69)

Imperial College London (Q189022)

archives at (P485)

University of Ottawa Library
(Q57942111)
described at URL

Data Structure for Authority Record (Human)

instance of (P31)

sex or gender (P21)

sex or gender (P21)

given name (P735)

family name (P734)

date of birth (P570)

place of birth (P19)

occupation (P106)

date of death (P570)

place of death (P20)

educated at (P69)

archives at (P485)

Example:

[Michelle Obama \(Q13133\)](#)

[Anne Innis Dagg
\(Q16093657\)](#)

[Ada Funnell \(Q81555769\)](#)

Exercise 1: Authority Record

Exercise Link: <https://bit.ly/wikidata-exercises>

Wikidata: <https://www.wikidata.org/>

Archival Fonds

Title and statement of responsibility area

Title proper	Monique Frize fonds
General material designation	• Multiple media
Level of description	Fonds
Repository	Archives et collections spéciales/Archives and Special Collections
Reference code	CA ON0034 10-123

Dates of creation area

Date(s)	• [195-J-2018 (Creation)
Creator	Frize, Monique

Physical description area

Physical description	17.782 m of textual records 81 photographs 44 VHS 36 slides 30 objects 19 posters 19 audiocassettes 17 CD-ROMs 13 CDs 11 videocassettes 9 frames 6 DVDs 2 scrapbooks 1 betacam 1 camera master
----------------------	--

Mapping metadata fields to Wikidata properties

title (P1476)	Monique Frize fonds (English)
level of description (P6224)	fonds (Q3052382)
collection creator (P6242)	Monique Frize
start of covered period (P7103)	2016
end of covered period (P7104)	2016
collection or exhibition size (P1436)	58 photographs ...

Archival Fonds

Statements for the Archival Fonds

Wikidata properties not from metadata

instance of (P31)	archival collection (Q9388534)
part of (P361)	Canadian archive of Women in STEM (Q63647303)
main subject (P921)	women in STEM fields (Q6693003)
described at URL (P973)	Fonds URL (qualifier: language of work or name (P407) - English (Q1860))
maintained by (P126)	University of Ottawa Library (Q57942111)

Data Structure for Archival Fonds

title (P1476)

level of description (P6224)

collection creator (P6242)

end of covered period (P7104)

end of covered period (P7104)

collection or exhibition size
(P1436)

instance of (P31)

part of (P361)

main subject (P921)

described at URL (P973)

maintained by (P126)

Example:

[Anne Innis Dagg fonds
\(Q60777226\)](#)

[Elizabeth Smith Shortt fonds
\(Q95689409\)](#)

Exercise 2: Archival Fonds


Exercise Link: <https://bit.ly/wikidata-exercises>

Wikidata: <https://www.wikidata.org/>

Hosting Institution

Unit or Department Level ([Q72118876](#))

Special Collections & Archives (Q72118876)

Academic archives at the University of Waterloo Library in Waterloo, Ontario 





SCA | University of Waterloo Library. Special Collections & Archives.

► [Recoin: Most relevant properties which are absent](#)

▼ [In more languages](#)

Language	Label	Description	Also known as
English	Special Collections & Archives	Academic archives at the University of Waterloo Library in Waterloo, Ontario	SCA University of Waterloo Library. S...
French	No label defined	No description defined	
Korean	No label defined	No description defined	

Statements

instance of	 archive	
	▼ 0 references	+ add reference
	 academic archive	
	▼ 0 references	+ add reference

Library ([Q57942111](#))

University of Ottawa Library (Q57942111)

the academic library system of the University of Ottawa 





uOttawa Library

► [Recoin: Most relevant properties which are absent](#)

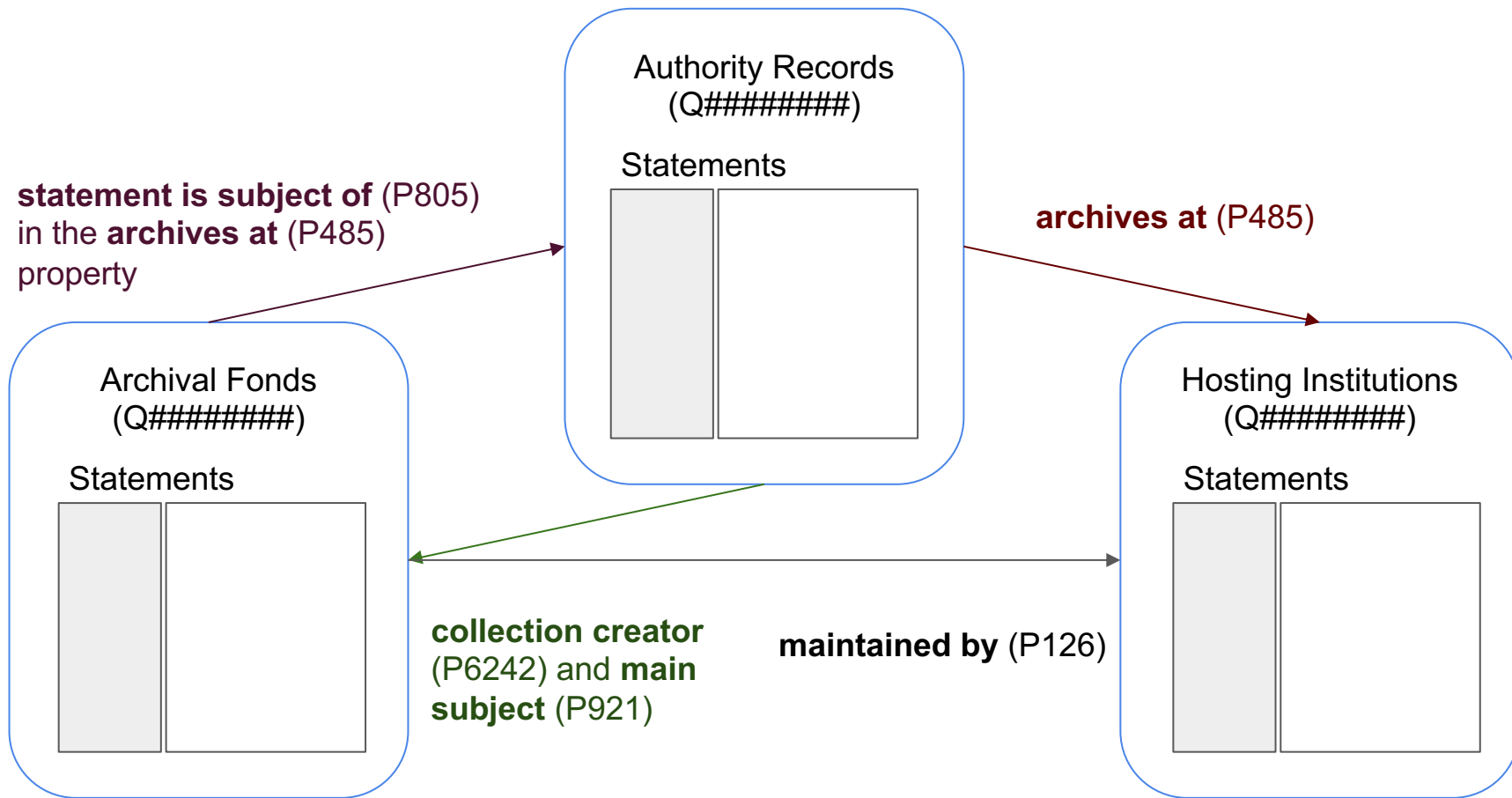
▼ [In more languages](#)

Language	Label	Description	Also known as
English	University of Ottawa Library	the academic library system of the University of Ottawa	uOttawa Library
French	Bibliothèque de l'Université d'Ottawa	No description defined	
Korean	No label defined	No description defined	

Statements

instance of	 academic library	
	▼ 0 references	+ add reference
	 library system	
	▼ 0 references	

How to link these three entries?

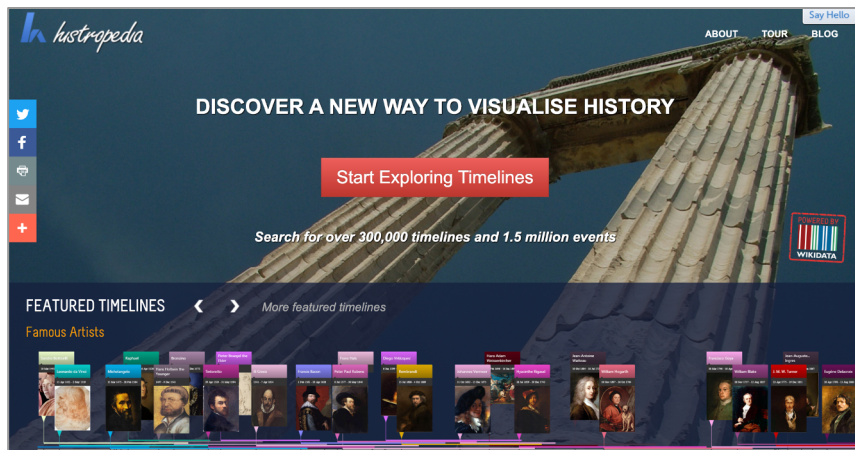


Tools

Tools for Displaying/Visualizing Data

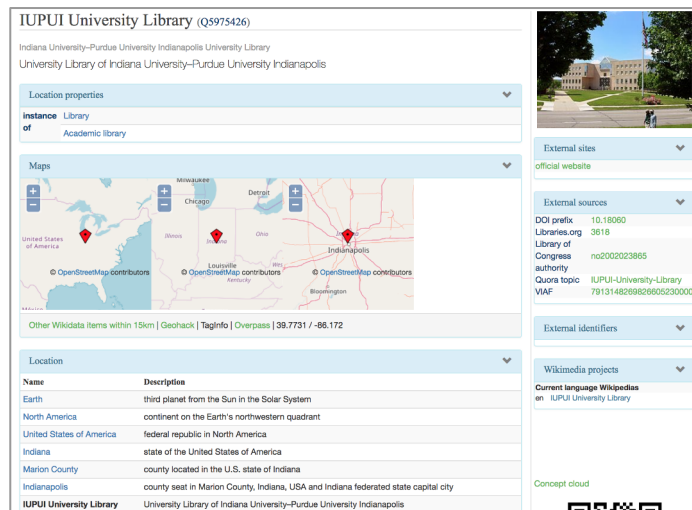
Histropedia

(<http://histropedia.com/>)



Reasonator

(<https://reasonator.toolforge.org/?>)



Tools for Contributing Data

Source MetaData

(<https://tools.wmflabs.org/sourcemd/>)

Source MetaData

Tools Issues Talk

The IDs and action you enter below will be added to a batch system.
It will run in the background, you won't have to keep the browser open.

Input list

IDs (one per row), or SPARQL (see checkbox)

☐ The above is a SPARQL query, rather than a list of IDs; first returned variable will be used as IDs

Check/add papers (list: one PMID/DOI/PMCID per row)

Add authors to publications by creating new items, and adding to existing authors where possible (list: one Wikidata publication item per row)

Add metadata from ORCID authors to Wikidata (list: one Wikidata author item or ORCID ID per row)

Create/amend papers for ORCID authors *slow!* (list: one Wikidata author item or ORCID ID per row)

Create books from ISBN (one ISBN per row; can be 'ISBN|Title' if known, otherwise auto-lookup)

QuickStatements

(<https://quickstatements.toolforge.org/#/>)

QuickStatements

English

New batch

Last batches

Chat

Git

Help

Log in

QuickStatements is a tool to batch-edit Wikidata

This is a new interface for QuickStatements V2. Just in case, the old interface is [here](#).

New batch

batch number See batch details

user name See batches by user

temp. batch ID Discuss/revert a temporary (browser-based) batch

Exercise 3:

QuickStatements

Exercise Link: <https://bit.ly/wikidata-exercises>

Wikidata: <https://www.wikidata.org/>

QuickStatements: <https://quickstatements.toolforge.org/#/>

Exercise 4:

References

Exercise Link: <https://bit.ly/wikidata-exercises>

Wikidata: <https://www.wikidata.org/>

Wrap-Up

We've created today...

Before the workshop:

- 46 women
- 54 archival fonds

DATA from Dashboard

After the workshop...

Women:

```
SELECT ?woman ?womanLabel
WHERE {
  ?archive wdt:P361 wd:Q63647303 ;
    wdt:P921 ?woman .
  ?woman wdt:P21 wd:Q6581072 .
  SERVICE wikibase:label {
    bd:serviceParam wikibase:language
    "[AUTO_LANGUAGE],en" }
}
```

Archival fonds:

```
SELECT ?archive ?archiveLabel
WHERE {
  ?archive wdt:P361 wd:Q63647303 .
  SERVICE wikibase:label {
    bd:serviceParam wikibase:language
    "[AUTO_LANGUAGE],en" }
}
```

Thank You!
(Q19279214)